

Abstract

A lenticular fireplace and methods for simulating a fire within a fireplace are disclosed. In one respect, a fire is simulated with a lenticular screen. The lenticular
5 screen includes a lenticular lens layer and an image layer, wherein the image layer comprises one or more images of a fire. A device is coupled to the lenticular screen that moves the lenticular screen to alter a viewed image of the fire. In another respect, the lenticular screen is disposed within a fireplace enclosure. In another respect, a fireplace includes a convertible heated glass apparatus. The apparatus is used in a front wall of
10 an enclosure. The front wall includes an electrically conductive panel coupled to a phase change material. Electrical terminals are operatively connected to the electrically conductive panel for applying a voltage across the electrically conductive panel to heat the front wall and convert the phase change material from an opaque solid to a less opaque liquid to allow viewing through the front wall. In another respect, a flame
15 simulation apparatus simulates a flickering flame effect on a translucent screen. The flame simulation apparatus includes the translucent screen having a front surface and a back surface, a bobble-flame, a device to move the bobble-flame, and a light source to reflect light off of the bobble-flame and onto the translucent screen. In another respect, a fireplace includes the lenticular screen, the convertible heated glass apparatus, and the
20 flame simulation apparatus.

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